

## AWWA 2017 Water Audit Level 1 Validation – Review Document

### Audit Information:

Utility: Marin Municipal Water District

PWS ID: 2110002

System Type: Potable

Audit Period: Calendar 2017

Utility Representation: Lucy Croy (Planning Department, Engineer), Connor Pollard (Auditor)

Validation Date: 7/19/2018

Call Time: 8:30am

Sufficient Supporting Documents Provided: Yes

### Validation Findings & Confirmation Statement:

#### Key Audit Metrics:

Data Validity Score: 55 Data Validity Band (Level): Band III (51-70)

ILI: 1.16

Real Loss: 28.17 (gal/conn/day)

Apparent Loss: 11.07 (gal/conn/day)

Non-revenue water as percent of cost of operating system: 4.5%

#### Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

### Validator Information:

Water Audit Validator: Drew Blackwell

Validator Qualifications: Contractor for California Water Loss TAP

Validator Provided

## 2017 AWWA Water Audit Level 1 Validation

**Water System Name:** Marin Municipal Water District **Water System ID Number:** CA2110002 **Water Audit Period:** Calendar Year 2017

### Water Audit & Water Loss Improvement Steps:

Steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

Marin Municipal Water District (MMWD) has participated in the Water Loss Technical Assistance Program (Water Loss TAP) to comply with California Senate Bill 555 and submit a completed and Level 1 validated water loss audit to the California Department of Water Resources. Through this process, MMWD has gained a better understanding of water loss volume and associated costs. The district has initiated identification of opportunities for water savings and improving data validity, in addition to prioritizing pipeline replacement capital improvements.

### Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audits and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Michael J. Ban, P.E.

Environmental & Engineering Services  
Division Manager



9/27/2018

Executive Name (Print)

Executive Position

Signature

Date

Utility Provided